

## ABSTRACT OF THE DISCLOSURE

An image analysis device 1 is equipped with the photoreceptive means 11 that optically acquires diffraction pattern A that appears on the fluorescent screen 24 in order to obtain the diffraction pattern resulting from reflection high-energy electron diffraction, and the halation-prevention filter 12 provided so as to transmit the visible light emitted from the diffraction pattern A of the fluorescent screen 24, along the light path connecting the photoreceptive means 11 and the fluorescent screen 24. Also, the filter 12 is varied so that the transmittance of the visible light transmitted through the filter 12 is minimum at the filter center and increases with the distance from the center.